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ALMRS EQUIPMENT ANALYSIS

U. S. Bureau of Land Management
Wyoming State Office

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Bureau of Land Management
Wyoming State Office
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Memorandum

To: Service Center Director (D-150)

From: State Director, Wyoming

Subject: ALMRS Equipment Analysis

Pursuant to Item 4 of the MBO Items for Subactivity 4212, FY 1985 AWP Directives, and Instruction Memorandum DSC-85-87, Wyoming is submitting the enclosed ALMRS Equipment Analysis.

If there are any questions concerning this document, please contact Phyllis Stone, FTS 328-2109.

Glen Rose
ACTING

Enclosure

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ALMRS PROCUREMENT ANALYSIS
Wyoming State Office

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EXECUTIVE SUMMARY

This Automated Land and Mineral Record System (ALMRS) Procurement Analysis reviews Wyoming's needs for equipment during ALMRS development, beginning this fiscal year (1985). The crux of this analysis is contained in the "Assumptions" and "Equipment Needs Analysis" sections. These sections describe the basic premises and objectives for ALMRS development and estimate what staff and equipment will be performing what type of functions in the State, volume of work to be performed, anticipated use of the system, existing compatible equipment, and additional equipment needed. Equipment need is described in terms of cathode ray tubes (CRT's), printers slaved to the CRT's, high-speed printers, and concomitant telecommunications and ADP equipment. An overview of ALMRS development, as jointly developed with DSC, is provided in the "Introduction."

Summary tables at the end of this document condense these equipment needs into three priorities:

Priority 1 - the minimum to initiate the legal land description and status process; minimum case processing capability; some equipment in every key office; a total of 46 CRT's, 40 printers, and 2 high-speed printers;

Priority 2 - optimize capability at WSO; additional equipment concentrated at WSO and districts; an additional 32 CRT's and 10 printers; and

Priority 3 - optimize capability at all DO's and detached RA's; additional equipment might include the purchase of a small mainframe for the Wyoming State Office.

The procurement analysis spans approximately five years and totals approximately $734,000. If all priorities were funded by the ALMRS office in DSC (D-150), it would mean the purchase of 78 CRT's, 50 printers, and 2 high-speed printers; $48,000 in telecommunications upgrades; $300,000 in ADP equipment upgrades; and $386,000 in maintenance contracts. The major ADP

upgrade is proposed for Priority 3 in the amount of $300,000 to allow storage of ALMRS data on a small mainframe (at least equivalent to a DPS-6) within the WSO in the event that DSC capability is not upgraded for ALMRS.

INTRODUCTION

The Automated Land and Mineral Record System (ALMRS) has evolved since April 1982, when a decision was made to automate information from oil and gas case records as an aid to managing the workload involved in reducing the pending backlog of these cases. Today's ALMRS mission is to develop and implement an efficient automated system for recording, maintaining, and retrieving information concerning: legal land description, ownership, status, and title information in support of Federal programs and public users of such records.

ALMRS is incrementally being developed to logically progress from a manual records system to a fully automated system. It will incorporate three components: legal land description, ownership/status data, and case management/processing. The system will also eventually be incorporated with a geographic information system (GIS), being developed separately in DSC, to allow a graphic display of the components listed above. The legal land description component will describe parcels of land via any recognized method such as the Public Land Survey system, metes and bounds, parcel numbering, and tracting. The ownership and status component will describe both the rights to use and enjoy property (including the right to transfer to others) and the availability of a given tract of land for governmental or private use (or for the disposal or lease of the land or its resources into non-federal ownership or tenure). The management/processing component will allow for the input, manipulations, retrieval, and reformatting of data in the system to meet management purposes such as reports, records, billings, etc. The definition of records and other terms is included in Appendix 1.

In its present configuration, ALMRS is a case recordation system that has been operational since June of 1982. It presently accommodates only 38 of the 102 data elements to be covered by ALMRS. Operating limitations are apparent and

temporary solutions for accommodating ALMRS data are required. The utility of the present case recordation system is perhaps best seen in the generated reports.

In the years to come, the manual records such as the Historical Index, Serial Register Pages, and some updates to the Master Title Plat will be eliminated in favor of electronic information displayed on CRT's (cathode ray tubes).

Legal descriptions of the 3,567 townships in Wyoming and Nebraska will be available, as well as status data. Data from case recordation (oil/gas and other active cases) and mining claim recordation will be available. Stipulations applicable to various case types and lands will be available for case processing, adjudication, and management decisions.

ALMRS will allow BLM to quickly validate legal land descriptions in cases, summarize case acres, adjust total acres in cases as lands are added or deleted, and streamline steps in the adjudication process. It will produce more comprehensive output reports eliminating labor intensive and often redundant manual steps. Status data will be more consistent. Errors in manual records can be easily corrected and accuracy of data will increase, especially for statistical reports.

As equipment is in place, land status records will be current and can be quickly and easily updated at any Bureau office that has the authority to take an action that affects land and case status. ALMRS will provide the field manager with a modernized records system and status information to facilitate use of the realty authorities already delegated to field offices.

ALMRS status outputs will be more understandable to the public, BLM, and other users. A narrative description of status information that can be printed by section, township, and range will facilitate land record use and understanding by all users. ALMRS will add a new dimension to the public land records because it can aggregate and manipulate land status data. Knowledge of title

ownership or use can be obtained from BLM in a more timely and consistently accurate manner. Benefits to commercial and industrial users, individuals, and other government users, who will have the capability to retrieve data selectively by area, case type, and action criteria, will be significant. Faster access will benefit Bureau and non-Bureau users of BLM records.

ALMRS will provide an interface with, and automated transfer of, data to the Simultaneous Oil and Gas program and to the Financial Management System. It will promote coordination and exchange of data among Minerals Management, AFS/PAAS systems, USGS, Forest Service, and other governmental entities who rely on BLM for land status statistics.

EQUIPMENT ANALYSIS ASSUMPTIONS

1. The plan addresses equipment needs for FY 85 through FY 90 based on the following priorities:

   Priority 1 procurement consists of all CRTs and printers needed to provide a minimum operation in the State, Public Room, district offices, and resource areas to allow collection of the remaining case data, and to begin the capturing of survey (legal land description) data and/or status data. It represents a minimal equipment and staffing configuration. Because ALMRS is still in the design phase, Priority 1 procurement represents the minimum interim solution until full design is completed.

   Priority 2 procurement increases the minerals and mining systems staffs' capability to track and query the data base for SO and public room users. Adequate equipment will also be available for SO staff to enter survey data and status data in ALMRS that will be collected at this time.

   Priority 3 procurement provides for full implementation of tracking and querying systems at all levels of the State and completes the extent of this analysis based on ALMRS development specifications and the assumptions of this analysis. The integration of survey and status data into the final ALMRS system may present some unforeseeable problems requiring additional equipment, but these kinds of needs cannot be seen at this time, as explained in our assumptions.

2. This analysis assumes that ALMRS will have sufficient telecommunications and computer processing support.

3. The plan addresses needs based on optimum configuration for implementation excluding GIS, because GIS technology has not fully been defined.

4. Optimum configuration means every office (SO Division, SO Branch, DO, RA, etc.) should have access to ALMRS data and be able to print out information in a convenient location based on user needs. This also includes adequate public use. Consider volume, location, and shared terminal vs. constant access.

5. Implementation will be essentially completed within this five-year period and involves all legal land description or survey work being done in-house and all status work being completed either by contract or in-house at the State's option. ALMRS will fund the collection of survey (legal land description) and status input.

6. Future interagency needs are not represented in this analysis and will be addressed by other means.

7. A very elementary workload analysis is needed at the time to assess the ALMRS workload and thus, the necessary equipment (Priority 1) for FY 85. For example, a workload of inputting survey information for 2100 townships requires approximately 8400 hours or 4.1 employees per year. Equipment necessary for four employees would include three terminals, a planometer, work space, office equipment, storage area for plats, hanging rack for printouts, etc.

EQUIPMENT NEEDS ANALYSIS (CRT's and Printers)

Based on the assumptions for implementation of ALMRS, workload and equipment needed have been estimated for all of Wyoming in the subsequent area-by-area equipment needs analysis. Because location of ALMRS work to be done is a key factor in identifying equipment needs, CRT and printer requirements have been identified by divisions within the State Office and district office.

Need is based on both current and future workload requirements. The ALMRS workload of each area is described in the "Need" paragraphs on each page. Identified users are both current and future, based on assumptions regarding automation of the manual lands system. The volume/usage paragraph on each page reflect both current and future use, estimated from present experience. The existing equipment is that equipment identified for ALMRS use that is compatible with latest specifications for ALMRS development. The additional equipment is based on need, location, and volume of workload.

Priority 1 procurement consists of all CRT's and printers needed to provide a minimum operation in the State and district offices, the public room users, to allow collection of the remaining case data, and to begin the capturing of survey (legal land description) data. It represents a minimal equipment and staffing configuration.

Priority 2 procurement increases the minerals and mining systems staffs' capability to track and query the data base for WSO and public room users. Adequate equipment will also be available for WSO staff to enter survey data and status data in ALMRS that will be collected at this time. The Survey Office will have full capability when this priority is funded.

Priority 3 procurement provides for full implementation of tracking and querying systems at all levels of the State and completes the extent of this analysis based on ALMRS development specifications and the assumptions of this analysis. The integration of survey and status data into the final ALMRS

system may present some unforeseeable problems requiring additional equipment, but these kinds of needs cannot be seen at this time, as explained in our assumptions.

AREA-BY-AREA ANALYSIS

WSO

1. Accounts & Receiving Section
   (Branch of Records)

NEED:

This Unit receives and accounts for all funds received by BLM. They update BRASS and AFS concerning rental payments. They issue all serial numbers for the State Office and assign blocks of numbers to the Districts for their use.

USERS: 4 Conveyance Examiners
3 Conveyance Clerks

VOLUME/USAGE: Estimated use of 1 CRT, 2 to 3 hours a day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

2. Public Information Area
(Branch of Records)

NEED:

This area answers 2,000 to 3,000 telephone calls monthly. They provide over-the-counter lease forms, KGS sale notices, simultaneous forms, lease transfer forms, and bond forms to the public. They provide information from the CFR as requested. They answer written inquiries concerning plat information, i.e., ownership, lease status, etc. They research lease numbers and verify ownership on serial register pages. They answer 100 to 125 letters a month concerning this information.

USERS: 3 Conveyance Examiners
1 Conveyance Clerk

VOLUME/USAGE: Estimated use of 2 CRT's, 1 Printer, 3 to 4 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 1 Printer
Priority 1 - 1 CRT, 1 Printer
Priority 2 - 1 CRT
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

3. Copywork
(Branch of Records)

NEED:

This unit does all of the reproduction of serial register pages and lease records. They reproduce approximately 34,000 serial pages annually. The equipment needed for this area is to relieve personnel from having to reproduce each of these pages on a Xerox machine. This area also handles the sale of competitive and simultaneous lists and results plus the reproduction of 77,000 documents from case files and 12,000 signed, certified documents annually. The needed equipment in this area is essential to their ability to perform to the best advantage of the Bureau.

USERS: 2 Conveyance Examiners
2 Conveyance Clerks

VOLUME/USAGE: Estimated use of 2 CRT's, 1 high speed printer, 8 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 High Speed Printer
Priority 1 - 1 CRT, 1 High Speed Printer
Priority 2 - 1 CRT
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

4. Public Room
(Branch of Records)

NEED:

This location is the hub of public lands activity for the state. It presently generates most of the public land information for the State and greatly affects public attitudes toward BLM land management (and ALMRS). The proposed ALMRS equipment is for the replacement of the manual records system and for a user community that must have access to needed public lands information in a timely manner. The public must have access to serial register information, title records, current land status, and be able to query the system for any of 11 states included in ALMRS. Eventually the public will have access to survey information such as mineral surveys, Homestead Entry surveys, and state boundary surveys.

USERS: Oil and gas brokers, title lawyers, mining companies, Federal, state, and local governments, surveyors, prospectors, private landowners, geneologists, etc.

VOLUME/USAGE: There are approximately 35 people who use the land office records each day to obtain the information regarding ownership of leases. They use serial register pages, master title plats, and case file to acquire this information. The demand for oil and gas, coal, sodium, and other minerals plus mining information is extremely heavy. There are 2 companies working full time to update their automation of the land office records. There are 2 companies working full-time on providing a list of assigned leases to public users. There are 12 self-employed brokers who work full-time researching information for public users. There are 2 lawyers who work full-time in our public room and innumerable lawyers who come on a need-to-know basis. Approximately 1,000 case files are pulled each week for public research. The public room users look at approximately 3,500 serial register pages each day. Approximately 75 plats are sold over the counter each day. At least 100 public room plat books are used each day. There are 2

pay phones for use in the public room and they are in use constantly during public room hours. The brokers answer questions for their clients daily over these phones.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 24 CRT's, 1 High Speed Printer

Priority 1 - 12 CRT's, 1 High Speed Printer
Priority 2 - 12 CRT's
Priority 3 - Unable to predict if above equipment will be sufficient.

AREA-BY-AREA ANALYSIS

WSO

5. Docket
(Branch of Records)

NEED:

This area handles most of the public inquiries concerning the Bureau's records. They answer approximately 100 telephone calls a day concerning status of leases. They assist the public in the public room answering their questions concerning the land office records. They pull approximately 1,000 case files each week for the public. They answer questions from the Districts and Resource Areas concerning special stipulations and any information that does not agree with that submitted to the Districts and Resource Areas. They enter all new applications received by the Bureau, all simultaneous leases, and competitive leases. They make all update notations to leases, i.e., assignments received, approved, returned, extension, units, name and address change, segregation, etc. There are approximately 1,200 assignments filed each month. They enter all rental payments received.

This area submits all bi-weekly, quarterly, and annual reports, Public Land Statistics, BLM in Wyoming, and payment in-lieu-of-taxes.

This involves maintaining and updating approximately 55,000 cases.

USERS: 7 Conveyance Examiners
8 Conveyance Clerks

VOLUME/USAGE: The 8 CRT's that are in this unit at the present time are in continuous use. The updating of leases and answering public inquiries demands full-time operation because of limited equipment. Work is backlogged in this area due to lack of equipment at the present time. They are updating 750 to 1,000 leases daily, 300 over-the-counter queries daily, 100-125 telephone queries daily, 100 hours usage of CRT's daily.

EXISTING EQUIPMENT: 3 Honeywell CRT's, 5 OMRONs that must be replaced

ADDITIONAL EQUIPMENT NEED: 7 CRT's, 5 Printers

Priority 1 - 5 CRT's, 5 Printers

Priority 2 - 2 CRT's

Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

6. Automated Records Coordinator
(Branch of Records)

NEED:

This area is responsible for coordinating the ALMRS project between State Office users, District users, Resource Area users, ADP, DSC, WO, and all other State Offices. Will be responsible for coordinating the gathering of Legal Land Description and Status for Wyoming and Nebraska. Is responsible for training all users of the ALMRS system in Wyoming. Will be responsible for assessing equipment needs for ALMRS and coordinating with ADP for installation of this equipment.

USERS: 1 Automated Records Coordinator

VOLUME/USAGE: 4 to 5 hours daily

EXISTING EQUIPMENT: 1 Decwriter

ADDITIONAL EQUIPMENT NEED: 1 CRT

Priority 1 - 1 CRT

Priority 2 - 1 Printer

Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

7. Title Records
(Branch of Records)

NEED:

This area is responsible for all updating to MTP, Use Plats, and Historical Indexes. They make 1,500 to 2,000 updates monthly to the plats. They run approximately 25,000 plats for sale to the public each year and approximately 20,000 plats and HI's for Bureau use. They produce approximately 30,000 microfiche copies of HI's and plats for use by the Bureau and other government agencies.

USERS: 5 Cartographic Technicians
1 Cartographic Aide
3 Machine Operators
3 Clerks

VOLUME/USAGE: 100 notations daily, 4 to 5 hours use of 1 CRT. Usage in this section will expand as legal land description and status are gathered.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 5 CRT's, 1 Printer
Priority 1 - 1 CRT, 1 Printer
Priority 2 - 4 CRT's (Possibly some of these could come from area gathering LLD and status when that project is completed.)
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

8. Legal Land Description and Status Gathering Area
(Branch of Records)

NEED:

This area will be responsible for gathering legal land description and status (if status is done in-house), on 3,567 townships in Wyoming and Nebraska.

USERS: 4 Conveyance Clerks

VOLUME/USAGE: 3 CRT's, 8 hours daily

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 3 CRT's, 1 Printer

Priority 1 - 3 CRT's, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

9. Branch of Mining Law and Salable Minerals

NEED:

This area handles approximately 150,000 active mining claims and assessments, mineral patents, mineral claimant bonds, deferment of assessments, private and Bureau initiated contests. They handle State Office associated work on mineral material sales and reporting on same, and surface management.

USERS:
1 Chief of Branch
1 Mining Engineer
1 Geologist
2 LLE
1 Conveyance Examiner
1 Conveyance Clerk
2 Equipment Operators
2 Secretarial Positions

VOLUME/USAGE: Present usage of 2 CRT's for mining claim entry and update is 12 hours daily. Entry of associated mineral work in ALMRS, 1 hour daily.

EXISTING EQUIPMENT: 2 OMRON CRT's (Will need to be replaced when mining claims runs on newer terminals.)

ADDITIONAL EQUIPMENT NEED: 2 CRT's (replacements), 1 Printer

Priority 1 - None

Priority 2 - 2 CRT's, 1 Printer

Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

10. Preleasing Unit
(Branch of Fluid Minerals)

NEED:

This area is responsible for all preparation of leases prior to issuance. They prepare the competitive and simultaneous lists. There are approximately 120 competitive parcels offered for sale by-monthly. They prepare a list of simultaneous parcels which requires combining approximately 1,200 expired, terminated, relinquished, and cancelled leases to arrive at a list of 600 parcels. They do all pre-issuance work on over-the-counter filings as well as simultaneous and competitive. This involves reviewing plats, requesting stipulations from Districts and other surface managing agencies. They handle the notification to the lessee on any terminated leases and the possible reinstatement of same. There are approximately 400 leases which expire or terminate each month.

USERS: 3 LLE
2 Conveyance Examiners
3 Conveyance Clerks

VOLUME/USAGE: 4 to 5 hours daily

EXISTING EQUIPMENT: None (Sharing CRT with Maintenance Unit)

ADDITIONAL EQUIPMENT NEED: 2 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer
Priority 2 - 1 CRT
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

11. Maintenance Unit
(Branch of Fluid Minerals)

NEED:

This area approves all Record Title assignments and operating rights assignments.

They process the overriding royalties for inclusion in the case files. They work units and segregations, communitizations, bonds, KGS notices and increases rentals, 11th year rentals, and transfer of accounts.

This amounts to approximately 1,100 assignments per month.

USERS: 6 LLE
2 Conveyance Examiners
4 Conveyance Clerks
2 Clerks

VOLUME/USAGE: 12 to 14 hours per day.

EXISTING EQUIPMENT: 1 CRT, 1 Printer

ADDITIONAL EQUIPMENT NEED: 2 CRT's
Priority 1 - 2 CRT's
Priority 2 - None
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

12. Program Operations Section
(Branch of Fluid Minerals)

NEED:

This area is responsible for regulatory requirements of exploration and production, environmental and reclamation requirements, inspection and enforcement, surface protection of exploration, development and reclamation drilling and production operations technical support, statistical reporting, lease sale economic evaluation, subsurface geology, KGS classification.

USERS:
1 Chief
1 Fluids Specialist
1 NRS
1 I & E Specialist
2 Physical Scientists
3 Petroleum Engineers
1 Geologist

VOLUME/USAGE: 2 to 3 hours per day. Heavy usage of reports that will be necessary to run on high speed printer.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer
Priority 2 - None
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

13. Simo/Post Leasing
(Branch of Fluids

NEED:

This area issues all the oil and gas leases for Wyoming and Nebraska. This averages about 400 leases per month. They also process all the simultaneous filings for the Bureau and hold the drawings. They handle the appeals on the issuance of the leases.

USERS: 3 LLE
4 Conveyance Examiners
2 Conveyance Clerks
2 Clerk/Typists

VOLUME/USAGE: Estimated use of 1 CRT, 2 to 3 hours a day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

14. Branch of Solid Minerals
(Div. of Mineral Resources)

NEED:

This area is responsible for inspection and enforcement, mine operation, resource recovery and protection plans, product reports and statistics, mineral trespass, minerals EA and EIS, coal activity and land use planning, mineral exchanges, oil shale, coal leases, assignments, subleases, withdrawals, relinquishments, bonding, competitive coal sales, preference right leases, exploration licenses; non-energy PRLA's, competitive sales, leases, renewals, permits; hardrock prospecting permits, PRLA's, competitive sales, renewals, leases, and permits.

USERS:
1 Chief
1 Solids Specialist
1 Coal Project Coordinator
3 LLE
1 Geologist
1 Secretary
1 Legal Clerk

VOLUME/USAGE: 1 to 2 hours per day.

EXISTING EQUIPMENT: 1 CRT, 1 Printer

ADDITIONAL EQUIPMENT NEED: None
Priority 1 - None
Priority 2 - None
Priority 3 - None

AREA-BY-AREA-ANALYSIS

WSO

15. Division of Lands & Renewable Resources

NEED:

This area handles all lands work that has not been delegated to District and Resource Area level, which includes withdrawal/withdrawal review and final title conveyance on lands. They provide program lead for 4211, 4212, 4220, and 5100 programs. They handle all Indian patents for Wyoming and Nebraska.

USERS: 2 Program Leaders
4 LLE's
3 Clerk Typists

VOLUME/USAGE: 1 to 2 hours a day.

EXISTING EQUIPMENT: 1 CRT

ADDITIONAL EQUIPMENT NEED: 1 Printer
Priority 1 - 1 printer
Priority 2 - None
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

16. Public Affairs Staff

NEED:

This area handles liaison between Washington, the State Office, and the public. They issue press releases and answer official inquiries concerning Bureau policy.

USERS: 1 Branch Chief
1 A/V Prod Officer
2 Public Affair Specialists
1 Secretary

VOLUME/USAGE: 1 to 2 hours per day. Probably will have heaviest usage of structured reports run on the high speed printer.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer
Priority 1 - None
Priority 2 - 1 CRT, 1 Printer
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

17. Branch of Engineering & Support
(Division of Operations)

NEED:

The cartographic unit of this Branch will use a CRT and slaved printer for continuous updating and revision of maps. They will use new cadastral survey information, current land status, information on mineral surveys, Homestead Entry surveys, and boundaries including State, Forest Service, Indian, etc.

The access unit will need to input and update information on easements and rights-of-way. It will review easement appraisals and scheduling. It will audit and manage the easement and rights-of-way program using ALMRS.

Engineering will input transportation system information and will need access for review and revision.

GIS/Remote Sensing will need both the case recordation portion of ALMRS and the eventual GIS interface (GIS analysis and equipment is not included in this document) access for daily operations.

USERS: 1 Supervisory Engineer Draftsman
17 Cartographic Technicians
2 Civil Engineers
1 NRS
2 Illustrators

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 2 Printers
Priority 1 - 1 CRT, 1 Printer
Priority 2 - 1 CRT, 1 Printer
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

18. Branch of Cadastral Survey
(Division of Operations)

NEED:

This area handles all Bureau surveying and resurveying for Wyoming. They are in charge of Survey Record information that is given to the public.

USERS: 1 Branch Chief
8 Surveyors
1 Cartographic Technician
1 Conveyance Examiner

VOLUME/USAGE: 2 to 3 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer
Priority 1 - None
Priority 2 - 1 CRT, 1 Printer
Priority 3 - None

AREA-BY-AREA ANALYSIS

WSO

19. Appraisal
(Division of Operations)

NEED:

This area handles appraisals on exchanges, sales, rights-of-way, and leases. It reviews caseload for scheduling appraisals, reviews, rate changes, and appraisal values.

USERS: 7 Appraisers

VOLUME/USAGE: 2 to 3 hours per day.

EXISTING EQUIPMENT: 1 CRT, 1 Printer

ADDITIONAL EQUIPMENT NEED: None

Priority 1 - None

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

WORLAND DISTRICT OFFICE

1. Division of Mineral Resources

NEED:

Performs District Office functions concerning the operations of oil and gas leases, units, and communitization agreements, NGPA, inspection and enforcement, KGS determinations, drainage determinations, APD, clearlisting, stipulations, designation of operators.

USERS:
1 Assistant District Manager
2 Division Chiefs
1 Bio Tech
11 Petroleum Engineers
2 Application Examiners
2 Environment Specialists
1 Data Transcriber
1 File Clerk

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 1 CRT

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 2 Printers
Priority 1 - 1 CRT, 1 Printer
Priority 2 - 1 CRT, 1 Printer
Priority 3 - None

AREA-BY-AREA ANALYSIS

WORLAND DISTRICT OFFICE

2. Division of Lands & Renewable Resource
Division of Operations

NEED:

Monitors and updates specific ALMRS case types such as trespass, pending and authorized lands cases, etc. The Realty Specialist will be potentially more involved than others. However, all divisions can share in ALMRS use for monitoring other natural resource management claims on public lands such as grazing leases, privileges; protecting areas such as wilderness, ACEC, and natural areas; withdrawal reviews; managing cultural sites and encroachments; rights-of-way; activities/claims in key wildlife areas; timber sales/management; activities/claims affecting environmental concerns (air, water, soil, etc.).

USERS: All resource specialists in division and their managers share with other divisions and management in proximity.

VOLUME/USAGE: The CRT would be used 5 to 6 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - 1 CRT

Priority 3 - None

AREA-BY-AREA ANALYSIS

CODY RESOURCE AREA

Need:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: 1 CRT

ADDITIONAL EQUIPMENT NEED: 1 Printer

Priority 1 - 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

GRASS CREEK RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to Resource Area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: 1 CRT, 1 Printer

ADDITIONAL Equipment Need: None

Priority 1 - None

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

WASHAKIE RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to Resource Area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

RAWLINS DISTRICT OFFICE

1. Division of Lands & Renewable Resources
   Division of Operations
   Division of Planning & Environmental Assistance

NEED:

Monitors and updates specific ALMRS case types such as trespass, pending and authorized lands cases, etc. The Realty Specialist will be potentially more involved than others. However, all divisions can share in ALMRS use for monitoring other natural resource management claims on public lands such as grazing leases, privileges; protecting areas such as wilderness, ACEC, and natural areas; withdrawal reviews; managing cultural sites and encroachments; rights-of-way; activities/claims in key wildlife areas; timber sales/management; activities/claims affecting environmental concerns (air, water, soil, etc.).

USERS: All resource specialists in division and their managers shared with other divisions and management in proximity.

VOLUME/USAGE: The CRT would be used 5 to 6 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 2 Printers

Priority 1 - 1 CRT, 1 Printer

Priority 2 - 1 CRT, 1 Printer

Priority 3 - None

AREA-BY-AREA ANALYSIS

RAWLINS DISTRICT OFFICE

2. Division of Mineral Resources

NEED:

Performs District Office functions concerning the operations of oil and gas leases, units, and communitization agreements, NGPA, inspection and enforcement, KGS determinations, drainage determinations, APD, clearlisting, stipulations, designation of operators.

USERS:
- 1 Assistant District Manager
- 3 Division Chiefs
- 9 Geologists
- 18 Petroleum Engineers
- 3 LLE
- 3 Environment Specialists
- 3 Mining Engineers
- 1 Physical Scientist

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 1 CRT, 1 Printer

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 2 Printers

Priority 1 - 1 CRT, 1 Printer

Priority 2 - 1 CRT, 1 Printer

Priority 3 - None

AREA-BY-AREA ANALYSIS

DIVIDE RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: 1 CRT

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

MEDICINE BOW RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: 1 CRT, 1 Printer

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

LANDER RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 3 CRT's, 1 Printer

ADDITIONAL EQUIPMENT NEED: 1 Printer

Priority 1 - 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

ROCK SPRINGS DISTRICT OFFICE

1. Division of Mineral Resources

NEED:

Performs District Office functions concerning the operations of oil and gas leases, units, and communitization agreements, NGPA, inspection and enforcement, KGS determinations, drainage determinations, APD, clearlisting, stipulations, designation of operators.

USERS: 1 Assistant District Manager
3 Division Chiefs
8 Geologists
14 Petroleum Engineers
2 Application Examiners
1 Application Clerk
3 Environment Specialists
2 Data Transcribers
3 LLe
4 Mining Engineers

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 1 CRT

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 2 Printers
Priority 1 - 1 CRT, 1 Printer
Priority 2 - 1 CRT, 1 Printer
Priority 3 - None

AREA-BY-AREA ANALYSIS

ROCK SPRINGS DISTRICT OFFICE

2. Division of Planning & Environmental Assistance
   Division of Lands & Renewable Resources
   Division of Operations

NEED:

Monitors and updates specific ALMRS case types such as trespass, pending and authorized lands cases, etc. The Realty Specialist will be potentially more involved than others. However, all divisions can share in ALMRS use for monitoring other natural resource management claims on public lands such as grazing leases, privileges; protecting areas such as wilderness, ACEC, and natural areas; withdrawal reviews; managing cultural sites and encroachments; rights-of-way; activities/claims in key wildlife areas; timber sales/management; activities/claims affecting environmental concerns (air, water, soil, etc.).

USERS: All resource specialists in division and their managers shared with other divisions and management in proximity.

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 2 Printers

Priority 1 - 2 CRT's, 2 Printers
Priority 2 - None
Priority 3 - None

AREA-BY-AREA ANALYSIS

BIG SANDY RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to the resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 3 to 4 hours per day.

EXISTING EQUIPMENT: 1 CRT, 1 Printer

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

KEMMERER RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to the resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 3 CRT's, 1 Printer

ADDITIONAL EQUIPMENT NEED: 2 Printers

Priority 1 - 2 Printers

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

PINEDALE RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to the resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: 3 CRT's, 1 Printer

ADDITIONAL EQUIPMENT NEED: 2 Printers

Priority 1 - 2 Printers

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

SALT WELLS RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to the resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: 1 CRT

ADDITIONAL EQUIPMENT NEED: 1 Printer

Priority 1 - 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

CASPER DISTRICT OFFICE

1. Division of Mineral Resources

NEED:

Performs District Office functions concerning the operations of oil and gas leases, units, and communitization agreements, NGPA, inspection and enforcement, KGS determinations, drainage determinations, APD, clearlisting, stipulations, designation of operators.

USERS: 1 Assistant District Manager
3 Division Chiefs
16 Geologists
6 Petroleum Engineers
2 Application Examiners
2 Application Clerks
1 Environment Specialist
6 Mining Engineers

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 2 CRT's, 1 Printer

ADDITIONAL EQUIPMENT NEED: 1 CRT, 2 Printers
Priority 1 - 1 CRT, 2 Printers
Priority 2 - None
Priority 3 - None

AREA-BY-AREA ANALYSIS

CASPER DISTRICT OFFICE

1. Division of Operations
   Division of Lands & Renewable Resources
   Division of Planning & Environmental Assistance

NEED:

Monitors and updates specific ALMRS case types such as trespass, pending and authorized lands cases, etc. The Realty Specialist will be potentially more involved than others. However, all divisions can share in ALMRS use for monitoring other natural resource management claims on public lands such as grazing leases, privileges, protecting areas such as wilderness, ACEC, and natural areas; withdrawal reviews; managing cultural sites and encroachments; rights-of-way; activities/claims in key wildlife areas; timber sales/management; activities/claims affecting environmental concerns (air, water, soil, etc.).

USERS: All resource specialists in division and their managers shared with other divisions and management in proximity.

VOLUME/USAGE: 5 to 6 hours per day.

EXISTING EQUIPMENT: None

ADDITIONAL EQUIPMENT NEED: 2 CRT's, 2 Printers

Priority 1 - 1 CRT, 1 Printer

Priority 2 - 1 CRT, 1 Printer

Priority 3 - None

AREA-BY-AREA ANALYSIS

BUFFALO RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to the resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 2 CRT's, 1 Printer

ADDITIONAL EQUIPMENT NEED: 1 CRT, 1 Printer

Priority 1 - 1 CRT, 1 Printer

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

PLATTE RIVER RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to the resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 2 CRT's, 1 Printer

ADDITIONAL EQUIPMENT NEED: 1 CRT, 2 Printers

Priority 1 - 1 CRT, 2 Printers

Priority 2 - None

Priority 3 - None

AREA-BY-AREA ANALYSIS

NEWCASTLE RESOURCE AREA

NEED:

The Resource Areas are responsible for surface compliance on oil and gas rights-of-way. They issue rights-of-way, administer public sales, exchanges, R&PP's, economic evaluations, site security plans, and notices to lessees. Many oil and gas operations are being decentralized to the resource area level.

USERS: All resource area personnel plus members of the public who make inquiry at Resource Area level.

VOLUME/USAGE: 8 hours per day.

EXISTING EQUIPMENT: 3 CRT's, 1 Printer

ADDITIONAL EQUIPMENT NEED: 2 Printers

Priority 1 - 2 Printers

Priority 2 - None

Priority 3 - None

ADP Data Communications Equipment/Maintenance Analysis

ADP/Data communications equipment and maintenance needs to support ALMRS Priorities 1 through 3, and during the time period FY 1985-1989, will be closely coordinated and accommodated, as funded by the project.

The present configuration and priority requirements are depicted in Enclosures 1 through 4. Our data communications network is presently adequate to support Priorities 1 through 3 except for additional requirements for modems and mulitplexer add-ons. These enclosures display the configuration for the respective priority by office location showing CRT's, printers, etc. Equipment and maintenance needs are included in the equipment analysis summary (Enclosures 5-9), which includes the project needs and costs by priority and totalled for the entire project. As stated previously in the equipment analysis assumptions (item 3), this document does not address GIS configuration/equipment needs. This analysis assumes data communications support will be adequately covered by DSC (DPS8).

Existing Equipment

Present equipment now inplace or in the process of installation is displayed in Enclosure 5. Costs to cover the maintenance of this equipment is not covered by the ALMRS project; however, this equipment will be included in the maintenance costs through the 3 priority periods. (Priority 1 - 1985; Priority 2 - 1986/87; and Priority 3 - 1988/89.)

(See Enclosure 5 for summary of costs relating to the present situation.)

Priority 1

Present ADP/Data Communications equipment adequate to support the CRT's and printers needed to provide the minimum operation through the priority 1 phase. Dedicated lines, high speed modems, and multiplexers are in the process of being installed at all District and Resource Area Offices. A multiplexer dedicated to public room use should be purchased at a cost of $4,000.

Maintenance costs to cover the CRT's and printers during this priority phase, on a yearly basis are listed as follows:

80 CRT's x $35/mo. x 12 mos.	= $33,600
56 Printers x $30/mo. x 12 mos.	= $20,160
2 High Spd. Printers x $63/mo. x 12 mos.	= $ 1,512
	$55,272

(See Enclosure 6 for summary of costs related to priority 1.)

Priority 2

This priority phase completes the ADP/Data Communications equipment needs for the statewide system.

Upgrade of the data communications system will consist of an increase in multiplexer channels at each District Office from 16 to 24 at a total cost of $24,000.

Multi-line communications processor will have to be expanded to accomodate an additional 32 lines at an estimated cost of $20,000. Maintenance costs to cover the existing 80 CRT's and 56 printers plus the additional 32 CRT's and 11 printers to be acquired under priority 2 are listed as follows:

112 CRT's x $35/mo. x 24 mos.	= $94,080
67 Printers x $30/mo. x 24 mos.	= $48,240
2 High Spd. Printers x $63/mo. x 24 mos.	= $ 3,024
	$145,344

(See Enclosure 7 for summary of costs for the priority 2 phase.)

Priority 3

Priority 2 completes the major peripheral equipment needs and the data communications network. At this time, it can not be specifically determined if the ALMRS data base will continue to reside on the DSC, DPS8, or whether a stand-alone dedicated computer will be installed at each State Office to accomodate the ALMRS project; however, if a total State Office operation is contemplated, then a computer equivalent to a Honeywell DPS 6 would cost in the area of $300,000.

Maintenance costs for the CRT's and printers during Priority 3 will remain the same as in Priority 2, which totals $146,000.

Maintenance costs on a new computer would run approximately $30,000/year.

(See Enclosure 8 for Priority 3 costs associated with maintenance of terminals/printers and estimate for puchase of a dedicated computer.)

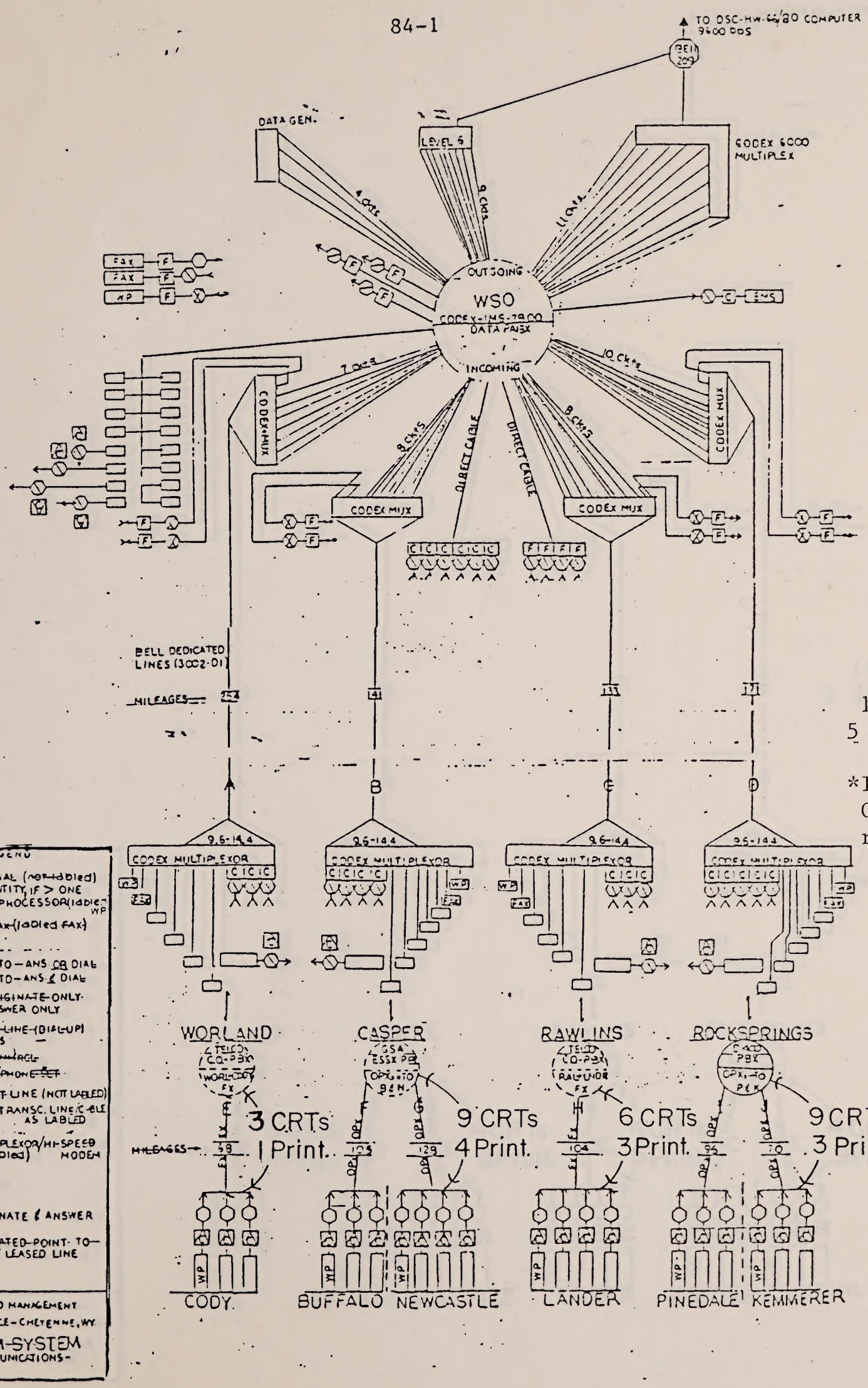
Enclosure 9 displays a summary of terminal and printer needs, as well as, telecommunications and ADP Equipment/Maintenance cost requirements.

EXISTING

BLM - WYOMING DATA COMMUNICATIONS

WYDATCOM SYSTEM

84-1



WSO
14 CRTs*
5 Printers

*Includes 7 OMRONS to be replaced.

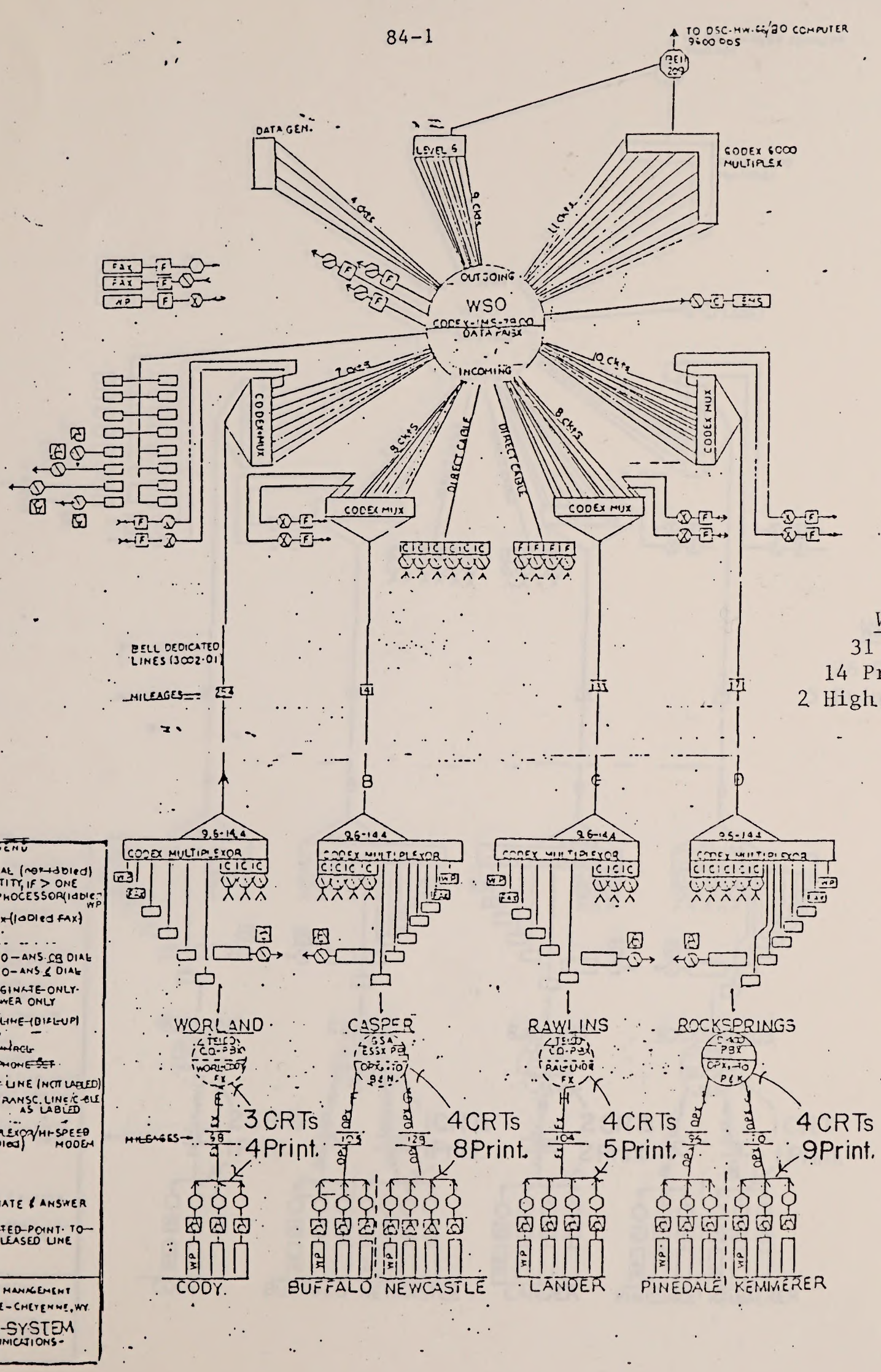
Encl. 1

PRIORITY 1

BLM - WYOMING DATA COMMUNICATIONS

WYDATCOM SYSTEM

84-1



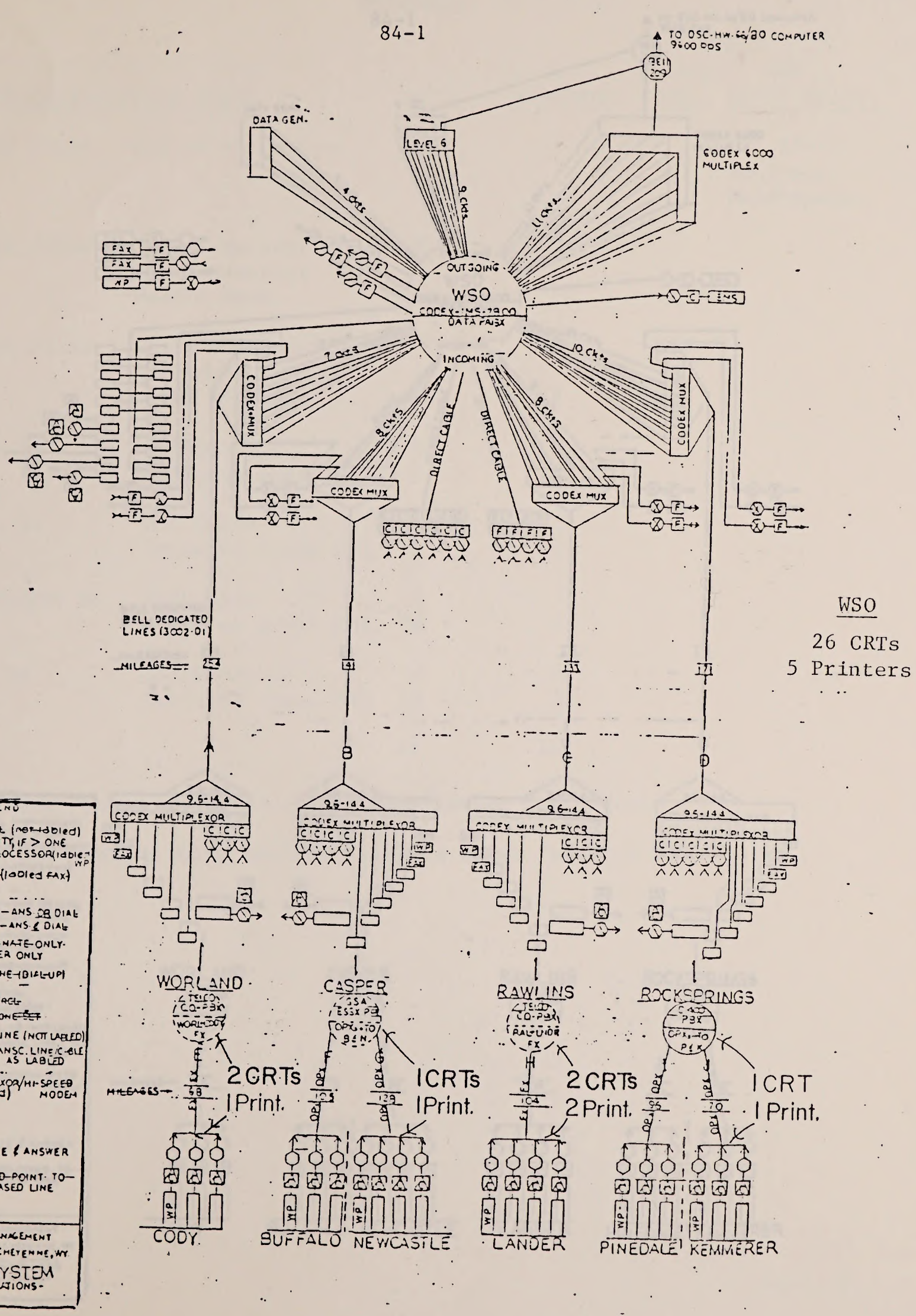
Encl. 2

PRIORITY 2

BLM - WYOMING DATA COMMUNICATIONS

WYDATCOM SYSTEM

84-1



WSO

26 CRTs
5 Printers

Encl. 3

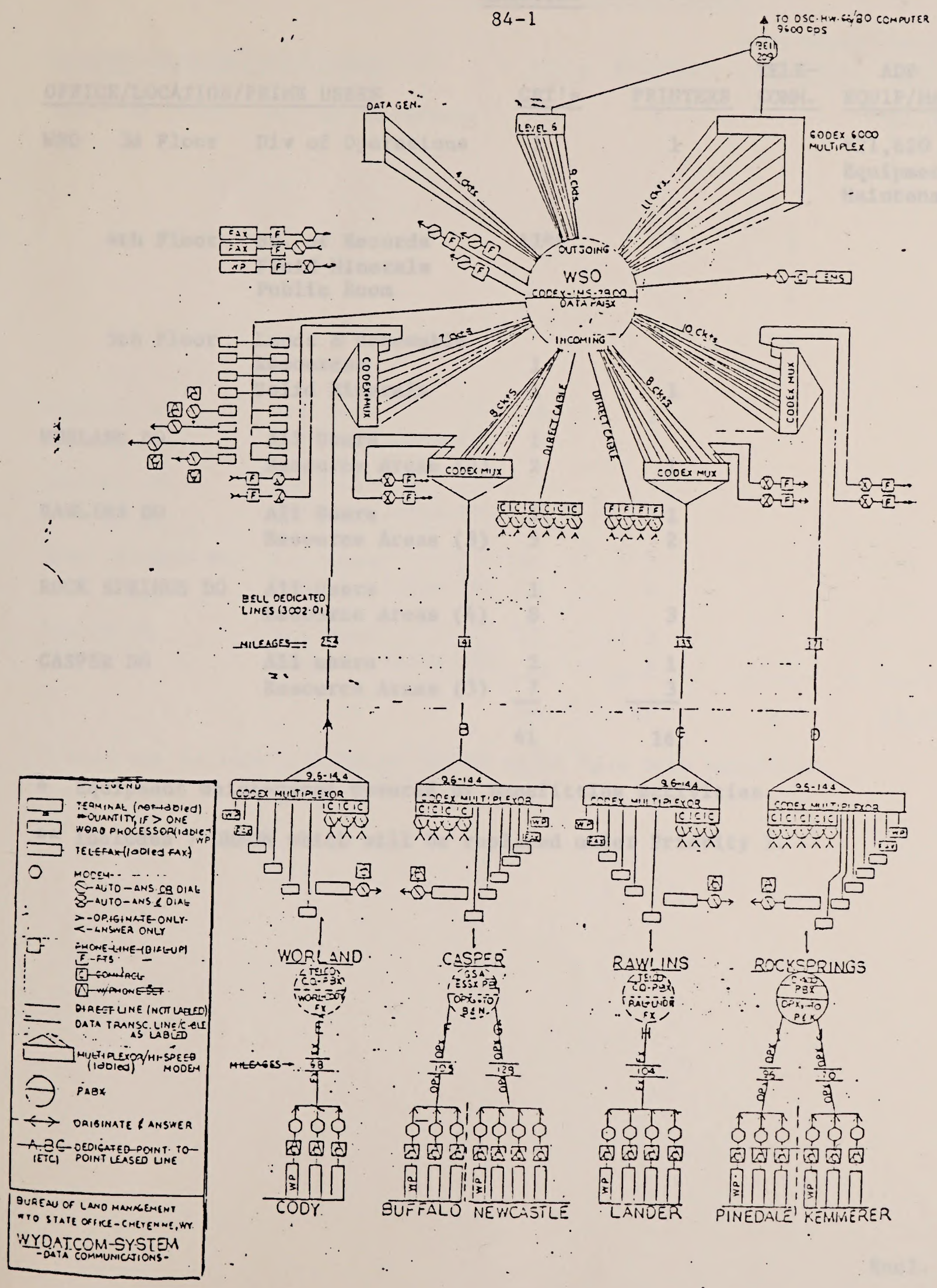
PRIORITY 3

(NO ADDITIONAL PERIPHERAL EQUIP. _ SAME AS PRIORITY 2)

BLM - WYOMING DATA COMMUNICATIONS

WYDATCOM SYSTEM

84-1



Encl. 4

TABLE 1

SUMMARY TABLE - CRT/PRINTER NEEDS
EXISTING

OFFICE/LOCATION/PRIME USERS			CRT's	PRINTERS	TELE-COMM.	ADP EQUIP/MAINT.
WSO	3d Floor	Div of Operations	1	1		*21,620 Equipment Maintenance
	4th Floor	Br. of Records	11**	3		
		Fluid Minerals				
		Public Room				
	5th Floor	Lands & Renewable Resources	1			
		Solid Minerals	1	1		
WORLAND DO		All Users	1			
		Resource Areas (3)	2	1		
RAWLINS DO		All Users	1	1		
		Resource Areas (3)	5	2		
ROCK SPRINGS DO		All Users	1			
		Resource Areas (4)	8	3		
CASPER DO		All users	2	1		
		Resource Areas (3)	7	3		
			41	16		

* Equipment maintenance covered by benefitting activities.

** Includes 7 OMRON which will be replaced under Priority 1.

Encl. 5

TABLE 1

SUMMARY TABLE - CRT\PRINTER NEEDS
KEYSTONE

PRESENT LOCATION\FLOOR USERS		CRT's	PRINTERS	TELE-COMM.	ADP EQUIP\MAINT.
WSO 3d Floor	Div of Operations	1	1		*21,620 Equipment Maintenance
4th Floor	Br. of Records Field Minerals Public Room	1144	3		
5th Floor	Lands & Renewable Resources	1			
	Solid Minerals	1	1		
MONLAND DO	All Users	1			
	Resource Areas (3)	2	1		
EAMLSRS DO	All Users	1	1		
	Resource Areas (3)	5	2		
FOCE SERVICES DO	All Users	1			
	Resource Areas (4)	8	3		
CASERS DO	All Users	2	1		
	Resource Areas (3)	7	3		
		41	16		

* Equipment maintenance covered by benefitting activities.

** Includes 7 CMSOM which will be replaced under Priority 1.

TABLE 2

SUMMARY TABLE - CRT/PRINTER NEEDS
PRIORITY 1 PROCUREMENT

OFFICE/LOCATION/PRIME USERS			CRT's	PRINTERS	HIGH-SPEED PRINTERS	TELE-COMM.	ADP EQUIP/MAINT.
WSO	3d Floor	Div of Operations	1	1		$4,000 Public Room MUX	$56,000* Equipment Maintenance
	4th Floor	Br. of Records	13	9	1		
		Fluid Minerals	5	3			
		Public Room	12		1		
	5th Floor	Lands & Renewable Resources		1			
WORLAND DO		All Users	2	2			
		Resource Areas (3)	1	2			
RAWLINS DO		All Users	2	2			
		Resource Areas (3)	2	3			
ROCK SPRINGS DO		All Users	3	3			
		Resource Areas (4)	1	6			
CASPER DO		All users	2	3			
		Resource Areas (3)	2	5			
			46	40	2	$4,000	

* Does not include 7 existing OMRONS which have been surplused.

Encl. 6

TABLE 2

SUMMARY TABLE - CRT/PRINTER NEEDS
PRIORITY I PROCUREMENT

OFFICE/LOCATION/PRIME USERS		CRT's	PRINTERS	HIGH-SPEED PRINTERS	TELE-COMM.	ADP EQUIP/MAINT.
WSO 3d Floor	Div of Operations	1	1		$4,000	$36,000*
					Public Room NUX	Equipment Maintenance
4th Floor	Sr. of Research	13	9	1		
	Fluid Minerals	5	3			
	Public Room	12		1		
5th Floor	Lands & Renewable Resources		1			
MOALAND DO	All Users	2	2			
	Resource Areas (3)	1	2			
RAWLINS DO	All Users	2	2			
	Resource Areas (3)	2	3			
ROCK SPRINGS DO	All Users	2	3			
	Resource Areas (4)	1	6			
CASPER DO	All users	2	3			
	Resource Areas (3)	2	5			
		40	40	2	$4,000	

* Does not include 7 existing CRT'S which have been surplused.

TABLE 3

SUMMARY TABLE - CRT/PRINTER NEEDS
PRIORITY 2 PROCUREMENT

OFFICE/LOCATION/PRIME USERS			CRT's	PRINTERS	TELE-COMM.
SO	3d Floor	Div of Operations	2	2	$20,000 MLCP Upgrade
	4th Floor	Br. of Records	8	1	1
		Public Room	12		
		Mining Law/Salable	2	1	
		Fluids	1		
	5th Floor	Public Affairs	1	1	
WORLAND DO		All Users	2	1	$6,000
		Resource Areas (3)	0	0	MUX
RAWLINS DO		All Users	2	2	$6,000
		Resource Areas (3)	0	0	MUX
ROCK SPRINGS DO		All Users	1	1	$6,000
		Resource Areas (4)	0	0	MUX
CASPER DO		All users	1	1	$6,000
		Resource Areas (3)	9	0	MUX
			32	10	$44,000

Encl. 7

TABLE 3

SUMMARY TABLE - CRT/PRINTER NEEDS
PRIORITY 2 PROCUREMENT

OFFICE/LOCATION/PRIME USERS		CRT's	PRINTERS	TELE-COMM.
SO 3d Floor	Div of Operations	2	2	$20,000 MLCF Upgrade
4th Floor	Br. of Records	8	1	1
	Public Room	12		
	Mining Law/Salable	2	1	
	Fields	1		
5th Floor	Public Affairs	1	1	
WORLAND DO	All Users	2	1	$6,000
	Resource Areas (3)	0	0	MUX
RAWLINS DO	All Users	2	2	$6,000
	Resource Areas (3)	0	0	MUX
ROCK SPRINGS DO	All Users	1	1	$6,000
	Resource Areas (4)	0	0	MUX
CASPER DO	All users	1	1	$6,000
	Resource Areas (3)	0	0	MUX
		32	10	$44,000

TABLE 4

SUMMARY TABLE - CRT/PRINTER NEEDS
PRIORITY 3 PROCUREMENT

NONE	Tele-COMM.	ADP EQUIP/MAINT.
	--	$300,000 Small mainframe (equal to DPS6)
	--	$206,000 Equipment maintenance
		$506,000

Encl. 8

TABLE 5

SUMMARY TABLE - CRT/PRINTER NEEDS
TOTAL PROCUREMENT

OFFICE/LOCATION/PRIME USERS			CRT's	PRINTERS	HIGH-SPEED PRINTERS	TELE-COMM.	ADP EQUIP/MAINT.
WSO	3d Floor	Div of Operations	3	3		$20,000 MLCP Upgrade	$300,000 Small mainframe computer.
	4th Floor	Br. of Records	21	10	1		
		Public Room	24	1	1	$4,000 Public Room MUX	$408,000* Equipment Maintenance
		Mining Law/Salable	2		1		
		Fluid Minerals	6	3			
	5th Floor	Public Affairs	1	1			
WORLAND DO		All Users	4	3		$6,000 MUX	
		Resource Areas (3)	1	2			
RAWLINS DO		All Users	4	4		$6,000 MUX	
		Resource Areas (3)	2	3			
ROCK SPRINGS DO		All Users	4	4		$6,000 MUX	
		Resource Areas (4)	1	6			
CASPER DO		All users	3	4		$6,000 MUX	
		Resource Areas (3)	2	5			
$708,000			78	50		2	$48,000
		Plus existing	34	26			
			112	66			

Encl. 9

TABLE 3

SUMMARY TABLE - CRT/PRINTER NEEDS
TOTAL PROCUREMENT

OFFICE/LOCATION/PRIME USERS	CRT's	PRINTERS	HIGH-SPEED PRINTERS	TELE-COMM.	ADP EQUIP/MAINT.
WSO 31 Floor Div of Operations	3	3		$20,000 MLCP Upgrade	$100,000 Small mainframe computer.
4th Floor Sr. of Records	21	10	1		
Public Room	24	1	1	$4,000	$400,000*
Mining Law/Salable	2		1	Public Room MUX	Equipment Maintenance
Field Minerals	6	3			
5th Floor Public Affairs	1	1			
NORLANDS DO All Users	4	3		$6,000	
Resource Areas (3)	1	2		MUX	
RANGELIANDS DO All Users	4	4		$6,000	
Resource Areas (3)	2	3		MUX	
ROCK SPRINGS DO All Users	4	4		$6,000	
Resource Areas (4)	1	6		MUX	
CODY DO All Users	3	4		$6,000	
Resource Areas (3)	2	3		MUX	
	74	30		2	$46,000
Plus existing	34	26			
$700,000	112	56			

TABLE 6

PRESENT USE OF ALMRS BY CASE TYPES*

Case Type	Description	Present Status Used	Not Used
0075	Misc. Non-Count	X	
16	Plan-prog-budgeting		X
18	Public admin procedures		X
21	Acquisitions	X	
22	Ex-Sec 204 FLPMA	X	
23	Withdrawals	X	
24	Sec. 7 classification	X	
25	Occupancy and use	X	
26	Grants	X	
27	Sale	X	
28	Rights-of-Way	X	
29	Leases and permits	X	
30	Minerals management	X	
31	Oil and gas leasing	X	
32	Geothermal resource leasing	X	
33	OCS leasing		X
34	Coal management	X	
35	All other leasing	X	
36	Mineral material disposal	X	
37	Multiple-use mining	X	
38	Mineral location patent	X	
39	Land disposal conflicts	X	
40	Range management		X
41	Inside/outside grazing districts		X
42	Alaska livestock grazing		X
43	Alaska reindeer grazing		X
47	Wild horses and burros		X
50	Forest management		X
54	Forest product sales pd.		X
55	Free-use timber		X
60	Outdoor rec. & wildlife mgmt.		X
62	Prot. & pres. of natural values		X
65	Sykes Act (coop. agreement)		X
80	Recreation programs		X
81	Cultural resource management		X
82	Natural history resource mgmt.	X	
83	Recreation management		X
85	Wilderness management		X
91	Cadastral survey		X
92	Trespass	X	

*Data base of March 1984.

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